

PN - DE3830002 A 19900301

PD - 1990-03-01

PR - DE19883830002 19880831

OPD- 1988-08-31

TI - Device for a movable cuvette for comparative reflection spectroscopic measurements

AB - For a cuvette arrangement for the discrete comparative analysis of liquid and film-forming materials, with the aim of raising the measurement accuracy and the scope of application of photometric methods, the object exists of developing a sample carrier which ensures an extremely uniform illumination depth for all the samples taken up as well as fully identical pick-up conditions, which is gas tight and easy to clean, so that it is also suitable for working with highly poisonous or highly infectious material.

The object is achieved according to the invention, in that a suitably shaped carrying body which consists of reflective optically transparent material can be guided continuously through the bundle of measuring rays in such a way that individual regions of the prism surface are irradiated for comparative measurements. The cross section of the prism shaped as a carrier permits a single or multiple irradiation of the sample-carrying surfaces (Fig. 1). in a correspondingly shaped cuvette holder, the cuvette is moved on a slide.

<IMAGE>

IN - NAUMANN DIETER DIPL CHEM DR (DE); MALTZAN FREIHERR VON (DE)

PA - NAUMANN DIETER (DE); MALTZAN FREIHERR VON BERND DIP (DE)

ICO - S01N21/03B3 ; S01N21/03P3

EC - G01N21/55B ; G01N21/03A

IC - G01N21/03 ; G01N21/25

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TI - Arrangement for movable cuvette for - has cuvette holder with mechanical carriage drive of gear or friction-type, transparent prismatic specimen holder

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IC - G01N21/03

AB - DE3830002 The cuvette arrangement has a cuvette (2) with several specimen fields in the form of a removable unit. A cuvette holder is provided in which the cuvette is movably mounted with a mechanical drive. The mechanical drive is a controllable carriage which can move transversely w.r.t. a measurement beam.

- The mechanical drive can be a gear drive with a toothed rod or a frictional drive. The cuvette contains an elongated specimen carrier (4) of prismatic cross-section and of optically transparent material. Its cross-section is selected to facilitate the transmission of light.

- USE/ADVANTAGE - For discrete comparative analysis of at least one specimen field of film-forming liquid and solid specimens using reflection spectroscopic measurements. The arrangement ensures an accurately equal film thickness of all specimens with ease of use. It can be easily cleaned after use with highly poisonous and infectious materials.(4/10)

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